

Title (en)
STEREO MICROSCOPE WITH SINGLE OBJECTIVE

Title (de)
STEREOMIKROSKOP MIT EINZEOBJEKTIV

Title (fr)
MICROSCOPE STÉRÉO À OBJECTIF UNIQUE

Publication
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Application
EP 18785732 A 20181005

Priority
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Abstract (en)
[origin: GB2567439A] An assembly suitable for producing a 3-dimensional stereoscopic image from a microscope comprises an objective assembly 501 with an aperture 502. The assembly comprises an additional lens 504 and a beamsplitter 505 which form a respective aperture image on each of two optical paths 521a, 521b. Each optical path comprises a stop structure 507a, 507b located on a plane of the respective aperture image 512a, 512b, so as to block a portion of the respective aperture image. This provides an exit pupil 531a, 531b, such that a stereoscopic image of an object 530 viewed through the microscope is produced by the combination of the images of the object visible through each exit pupil. The stop structures may comprise curtains configured to block one side of the aperture image, and these may be moveable to provide a transition between stereo and mono images. A stereo microscope, and method of retrofitting a microscope to produce a stereo microscope are also claimed. A method of using a microscope, requiring switching between stereo and mono viewing modes is also claimed.

IPC 8 full level
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